

CLAIMS

1. A revocation information transmission method comprising the steps of:
executing mutual authentication between a contents transmitting equipment
5 and a contents receiving equipment;
uploading revocation information including key information of mutual
authentication failure from the contents transmitting equipment or the contents
receiving equipment in case of mutual authentication failure;
preparing integrated revocation information by integrating the revocation
10 information individually uploaded;
packetizing the integrated revocation information and multiplexing it into a
stream; and
transmitting the stream,
wherein the revocation information transmission method is used in a system
15 comprising a contents transmitting equipment for transmitting contents, a contents
receiving equipment for receiving contents, and a connecting means for connecting
the contents transmitting equipment to the contents receiving equipment.
2. A revocation information transmission method comprising the steps of:
20 integrating revocation information of one or multiple contents transmitting
equipments or content receiving equipments to prepare integrated revocation
information;
packetizing the integrated revocation information and multiplexing it into a
stream; and
25 transmitting the stream.

3. The revocation information transmission method of claim 1 or claim 2, wherein the stream is an MPEG transport stream, and the integrated revocation information is transmitted by using a data structure of section of the MPEG transport stream.

4. The revocation information transmission method of claim 1 or claim 2, wherein the stream is an MPEG transport stream, and the integrated revocation information is transmitted by using a data structure of PES packet of the MPEG transport stream.

5. The revocation information transmission method of claim 1 or claim 2, wherein the stream is an MPEG transport stream, and the integrated revocation information is transmitted by using a payload of transport packet of the MPEG transport stream.

6. The revocation information transmission method of claim 1 or claim 2, wherein the integrated revocation information is transmitted by using an IP packet.

7. A revocation information reception method comprising the steps of:
receiving an integrated revocation information list by a contents transmitting equipment or a contents receiving equipment; and
storing the integrated revocation list by the contents transmitting equipment or the contents receiving equipment.

8. The revocation information reception method of claim 7, further comprising the steps of:

collating the integrated revocation list with key information read out of the contents receiving equipment; and

5 preventing picture or voice from being outputted from the contents receiving equipment because of authentication failure in case the key information is included in the revocation list.

9. A revocation information transmitting apparatus comprising:

10 a plurality of contents transmitting equipments for transmitting contents;

a plurality of contents receiving equipments for receiving contents, which are respectively connected to the plurality of contents transmitting equipments;

a connecting means for connecting the contents transmitting equipment to the contents receiving equipment;

15 a network for sucking up revocation information from the plurality of contents transmitting equipments or the plurality of contents receiving equipments;

an integrating means for integrating the revocation information, which is connected to the network;

a multiplexing means for packetizing the integrated revocation information
20 integrated by the integrating means and multiplexing it into a stream; and

a transmitting means for transmitting the stream.

10. A revocation information transmitting apparatus comprising:

an integrating means for integrating revocation information of one or multiple
25 contents transmitting equipments or contents receiving equipments;

a multiplexing means for packetizing the integrated revocation information and multiplexing it into a stream; and

a transmitting means for transmitting the stream.

5 11. The revocation information transmitting apparatus of claim 9 or claim 10, wherein the stream is an MPEG transport stream, and the integrated revocation information is transmitted by using a data structure of section of the MPEG transport stream.

10 12. The revocation information transmitting apparatus of claim 9 or claim 10, wherein the stream is an MPEG transport stream, and the integrated revocation information is transmitted by using a data structure of PES packet of the MPEG transport stream.

15 13. The revocation information transmitting apparatus of claim 9 or claim 10, wherein the integrated revocation information is transmitted by using a payload of transport packet of the MPEG transport stream.

20 14. The revocation information transmitting apparatus of claim 9 or claim 10, wherein the integrated revocation information is transmitted by using an IP packet.

15. A revocation information receiving apparatus comprising:

a contents transmitting equipment or a contents receiving equipment which receives an integrated revocation list,

25 wherein the contents transmitting equipment or the contents receiving

equipment stores the integrated revocation list.

16. The revocation information receiving apparatus of claim 15, further comprising:

5 a means for collating key information read out of the integrated revocation list and the contents receiving equipment, and

 an output control means for preventing picture or voice from being outputted from the contents receiving equipment because of authentication failure in case the key information is included in the revocation list.